

# **Qualification Summary**

## **Key Information**

Level

Level 1

**Qualification Type** 

Vocationally-Related Qualification

**Total Credits** 

24

SSA

05.2 Building and construction

**Guided Learning Hours** 

120

Sector

Construction

**Assessment Language** 

English

**Operational Start Date** 

01/09/2017

**Qualification Status** 

Available To Learners

**Overall Grading Type** 

Graded

**Grading Scale** 

Pass/Merit/Distinction/Distinction\*

Internal/External

External

**Recommended Minimum Age** 

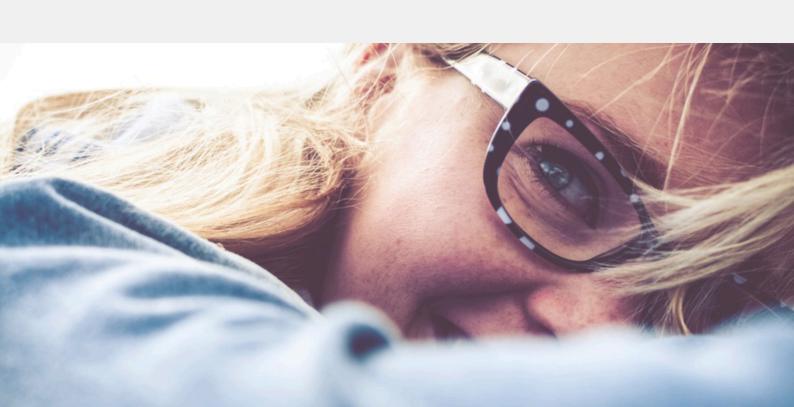
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**Assessment Methods** 

Portfolio of Evidence

**Permitted Delivery Types** 

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## www.tquk.org

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Visit www.tquk.org in order to stayup to date with the latest qualification news.









#### **Welcome to TQUK**

TQUK is an Awarding Organisation recognised by the Office of Qualifications and Examinations Regulation (Ofqual) in England and CCEA Regulation in Northern Ireland.

TQUK offers qualifications which are regulated by Ofqual and, in some cases, by CCEA Regulation, sit on the Regulated Qualifications Framework (RQF) and are listed on the Regulated Qualifications website.

Our qualifications are designed to support and encourage learners to develop their knowledge and skills. This development may result in progression into employment or career development in the workplace. Our qualifications also allow learners to progress onto further qualifications.

Please visit our website www.tquk.org for news of our latest developments.

#### **Qualification Specifications**

Each qualification which TQUK offers is supported by a specification that includes all the information required by a centre to deliver a qualification. Information in the specification includes unit information, assessment and learning outcomes.

The aim of the Qualification Specification is to guide a centre through the process for delivering the qualification. Please read it alongside the TQUK Centre Handbook.

Details of TQUK's procedures and policies can be found on <a href="www.tquk.org">www.tquk.org</a>. Qualification specifications can be found also be found on <a href="www.tquk.org">www.tquk.org</a>. Please check the website regularly to ensure that you are using the most up to date version.

If you have any further questions, please contact  $\underline{\mathsf{TQUK}}$ .

#### **Brand Guidelines**

TQUK is a professional organisation and use of its name and logo is restricted. TQUK's name may only be used by recognised centres to promote TQUK qualifications. Recognised centres may use the logo for promotional materials such as on corporate/business letterheads, pages of a centre's website relating to TQUK qualifications, printed brochures, leaflets or exhibition stands.

When using TQUK's logo, there **must** be no changes or amendments made to it, in terms of colour, size, border and shading. The logo **must** only be used in a way that easily identifies it as TQUK's logo. Any representation of TQUK's logo **must** be done so as a representation of the true logo.

It is the responsibility of the centre to monitor the use and marketing of TQUK's logos and qualifications on their own materials as well as on those of any re-sellers or third parties that they may use. TQUK **should** be made aware of relationships with re-sellers or third parties including any additional websites that the centre will use in addition to their own website. If this information is changed TQUK **should** be notified. TQUK is required to monitor centre's websites and materials to ensure that learners are not being misled.

If a centre is no longer a TQUK recognised centre it **must** immediately discontinue the use of TQUK's logo, name and qualifications.

## **Qualification Details**

#### The Qualification

The TQUK Level 1 Certificate in Design, Engineer, Construct! The Digital Built Environment (RQF) is regulated by Ofqual.

## **Qualification Purpose**

Design Engineer Construct! Level 1 is an introductory programme for learners looking to explore professional practice in the digital Built Environment and provides excellent foundation learning for progression to Level 2.

The Design Engineer Construct! Learning Programme (now commonly known as DEC) has gained a solid reputation as "the most innovative, challenging and relevant secondary school curriculum development in recent years, championed by respected leaders, and referenced in numerous national reports.

Learners design a small, community focused Eco Classroom - a highly sustainable and inclusive building that offers flexible use for diverse groups - with a brief to teach local communities about everyday environmentally-friendly living.

Learners should use an area of their existing school grounds as the building site location of your Eco Classroom. This enables ease of access to a safe, outdoor space in which you can explore key topics such as spatial requirements, orientation and access. Learning outcomes also require learners to carry out relevant industry practices in an outdoor space (such as marking out the position of a building) and the proximity of school playing fields etc facilitates this.

Learners are empowered to take ownership of their own project and we recommend they are also given the opportunity to liaise with their client the local community itself - through the involvement of learners families, teachers and governors. Where possible, learners should have access to professional volunteers

The Level 1 programme is an active programme learners develop and deliver a fit for purpose, functional design by learning through the medium of their existing school and their home, taking on the roles of key Built Environment professionals such as architects, engineers, surveyors and managers.

Where possible, we recommend learners are given access to professional volunteers e.g. through the Class Of Your Own Adopt A School scheme and Professional Body outreach programmes.

A key objective is to develop the knowledge and skills required to define, develop, deliver and evaluate a digital construction project from concept to handover, encouraging learners to focus on their impact on the end user, the wider community and the environment, setting standards for resource efficiency, and committing to sustainable procurement. Learners will understand the need for accurate technical information regarding the proposed site, and the constraints and challenges a site can present. Using building information modelling (BIM) methodologies, the project will be developed from concept stage to feasibility and planning, creating a digital model that incorporates main architectural, structural and services detail. Learners will explore the life cycle of the building focusing on operation and management, maintenance and cost. The final unit develops learners ability to evaluate their projects from a range of perspectives, and learners will be required to present their work to stakeholders, making clear judgements on the success of their project, and the lessons they have learned for the future.

## **Entry Requirements**

This qualification is accessible to learners in secondary schools, University Technical Colleges, Further Education Colleges, International Schools and other educational institutions.

The recommended minimum age for this qualification is 14 years and above.

Centres should ensure that any learner registered on a TQUK qualification undertakes an initial assessment to ensure they have the ability to complete the course in full. The outcomes of the process inform:

- Early judgements about the learner
- The focus and level of learning
- The skills and needs that will be developed and supported

A review of a learners prior achievements, well-managed interviews and diagnostic tests are all suitable forms of initial assessment.

The recognised centre is required to have one or more delivery sites which offer facilities to support the programme of learning and assessment. These must comply with health and safety regulations and have in place appropriate access arrangements. All training and/or assessment sites must include the following facilities:

- A practical space to be used for learning and assessment activities. This should offer multimedia facilities such as data projector and laptop, flipchart and pens.
- Architectural model-making facilities (card, foam board).
- A high specification IT suite and IT hardware (minimum requirements will be advised to each Centre)
- Industry standard design software (advised to each Centre)

## **Progression**

This qualification provides opportunity to progress on to Level 2 and access further education or employment in the Digital Built Environment. It provides access to a wide range of career pathways, including Architecture and Architectural Technology, Geospatial and Property Surveying, Quantity Surveying and Cost Management, Civil, Structural and Building Services Engineering and Construction Project Management.

The qualification complements other subject areas at Level 1, such as mathematics, physics, engineering, computer science, art, geography, business studies and design technologies to broaden the curriculum. With a range of transferable knowledge and skills, learners can also access wider industry opportunities, for example in the town planning, creative and digital, financial, and legal sectors.

#### Structure

This qualification consists of four mandatory units. Learners must successfully complete all four mandatory units to achieve the qualification. Unit specifications are available upon request from TQUK.

#### **Mandatory Units**

Unit ref.	Title	Level	GLH	Credit Value
F/615/8822	Defining a sustainable construction project	1	20	5
D/615/8830	Planning permission, costing and presenting a sustainable building project	1	20	5
R/615/8825	Producing a technical design and sharing information	1	20	5
L/615/8824	Roles in construction project teams	1	60	9

#### **Barred Units**

There are no barred units.

#### **Duration**

#### **Guided Learning Hours**

These hours are made up of all contact time, guidance or supervision of a learner by a lecturer, supervisor, tutor, trainer or other appropriate provider of education or training. Guided Learning Hours for this qualification is 120.

#### **Directed Study**

Learners are expected to study and complete aspects of their assessment portfolio in their own time. This additional time is expected to be approximately 120 hours over the cycle of the programme.

#### **Total Qualification Time**

This is an estimate of the total length of time it is expected that a learner will typically take to achieve and demonstrate the level of attainment necessary for the award of the qualification i.e. to achieve all learning outcomes.

Total Qualification Time is comprised of GLH and an estimate of the number of hours a learner is likely to spend in preparation, study or any other learning including assessment, which takes place as directed by, but not under the supervision of a lecturer, supervisor or tutor. The credit value, where given, for a qualification is determined by TQT, as one credit corresponds to 10 hours of learning. Total Qualification Time for this qualification is 240 hours.

## **Grading and Assessment**

Assessment details can be viewed in the full specification.

## Centre Recognition

To offer any TQUK qualification, each centre must be recognised by TQUK and meet qualification approval criteria. Qualification approval must be confirmed prior to any assessment of learners taking place. It is essential that centres provide learners with access to appropriate support in the form of specialist resources.

The TQUK centre recognition process requires a centre to have in place a number of policies and procedures to protect the learners undertaking a TQUK qualification and the integrity of TQUKs qualifications. The policies and procedures will also support a recognised centres quality systems.

Recognised centres must seek approval for each qualification they wish to offer.

The approval process requires centres to demonstrate that they have the resources, including staff, to deliver and assess the qualification.

## Support from TQUK

Recognised centres will be able to access support from TQUK whenever necessary. External Quality Assurance activities will be undertaken on a regular basis. TQUK also offers recognised centres the service of a Client Relationship Officer whose role is to support centres with any administration queries or qualification support.

## **Qualification Delivery**

#### **Pre-Qualification Information**

All learners should be given appropriate pre-course information regarding any TQUK qualifications. The information should explain about the qualification, the fee, the form of the assessment and any entry requirements or resources needed to undertake the qualification.

#### **Initial Assessment**

Centres should ensure that any learner registered on a TQUK qualification undertakes some form of initial assessment. The initial assessment should be used to inform a teacher/trainer on the level of the learners current knowledge and/or skills. Initial assessment can be undertaken by a teacher/trainer in any form suitable for the qualification to be undertaken by the learner/s. It is the centres responsibility to make available forms of initial assessment that are valid, applicable and relevant to TQUK qualifications.

#### **Learner Registration**

Once approved to offer a qualification the centre should register learners before any assessment can take place. Recognised centres

must follow TQUKs procedures for registering learners. For short courses, TQUK offer the option of registering a course and booking a number of places. Learners are then added once the course has taken place, thus acknowledging situations where substitutions are made at short notice to meet business needs.

## Requirements

#### Trainer/Assessor

Tutors/trainers who deliver a TQUK qualification must possess a teaching qualification appropriate for the level of qualification they are delivering. This can include the below:

- Further and Adult Education Teachers Certificate
- Cert Ed/PGCE/B Ed/M Ed
- PTLLS/CTLLS/DTLLS
- Level 3 Award/4 Certificate/5 Diploma in Education and Training

Assessors who assess a TQUK qualification must possess an assessing qualification appropriate for the level of qualification they are delivering. This can include:

- Level 3 Award in Assessing Competence in the Work Environment
- Level 3 Award in Assessing Vocationally Related Achievement
- Level 3 Award in Understanding the Principles and Practices of Assessment
- Level 3 Certificate in Assessing Vocational Achievement
- A1 or D32/D33

Specific requirements for assessors may be indicated in the assessment strategy/principles identified in individual unit specifications.

#### **Internal Quality Assurer**

Centre staff who undertake the role of an Internal Quality Assurer (IQA) for TQUK qualifications must possess or be working towards a relevant qualification. This could include:

- Level 4 Award in the Internal Quality Assurance of Assessment Processes and Practice
- · Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Processes and Practice
- V1 Conduct internal quality assurance of the assessment process
- D34 Internally verify the assessment process

It is best practice that those who quality assure qualifications also hold one of the assessing qualifications outlined above. IQAs must follow the principles set out in Learning and Development NOS 11 Internally monitor and maintain the quality of assessment.

All staff members involved with the qualification (training, assessing or IQA) will also need to be occupationally competent in the subject area being delivered. This could be evidenced by a combination of the below:

- A higher level qualification in the same subject area as the qualification approval request.
- Experience of the delivery/assessment/IQA of the qualification/s requested.
- Work experience in the subject area of the qualifications.

Staff members will also be expected to have a working knowledge of the requirements of the qualification, and a thorough knowledge and understanding of the role of tutors/assessors and internal quality assurance. They are also expected to undertake continuous professional development (CPD) to ensure they are up to date with work practices and developments in the qualifications they are involved with.

#### Centre Devised Assessment

We will work with you to develop your CDA, but please be aware that in some cases this can take time and learners are not permitted to sit their assessments until this process has been completed. With this in mind we encourage centres to talk to us about their CDAs as early on in the process as possible.

#### Useful Resources

#### **Websites**

Health and Safety Executive www.hse.gov.uk

Office of Qualifications and Examinations Regulation www.ofqual.gov.uk

Register of Regulated Qualifications register.ofqual.gov.uk

Skills for Health www.skillsforhealth.org.uk

Skills for Care /www.skillsforcare.org.uk

Education & Skills Funding Agency for public funding information for 14+ learners in England <a href="https://www.gov.uk/government/organisations/education-and-skills-funding-agency">https://www.gov.uk/government/organisations/education-and-skills-funding-agency</a>

Learning Aim Reference Service (LARS) www.gov.uk/government/publications

Department for the Economy www.economy-ni.gov.uk

Department of Education www.deni.gov.uk for public funding in Northern Ireland.

